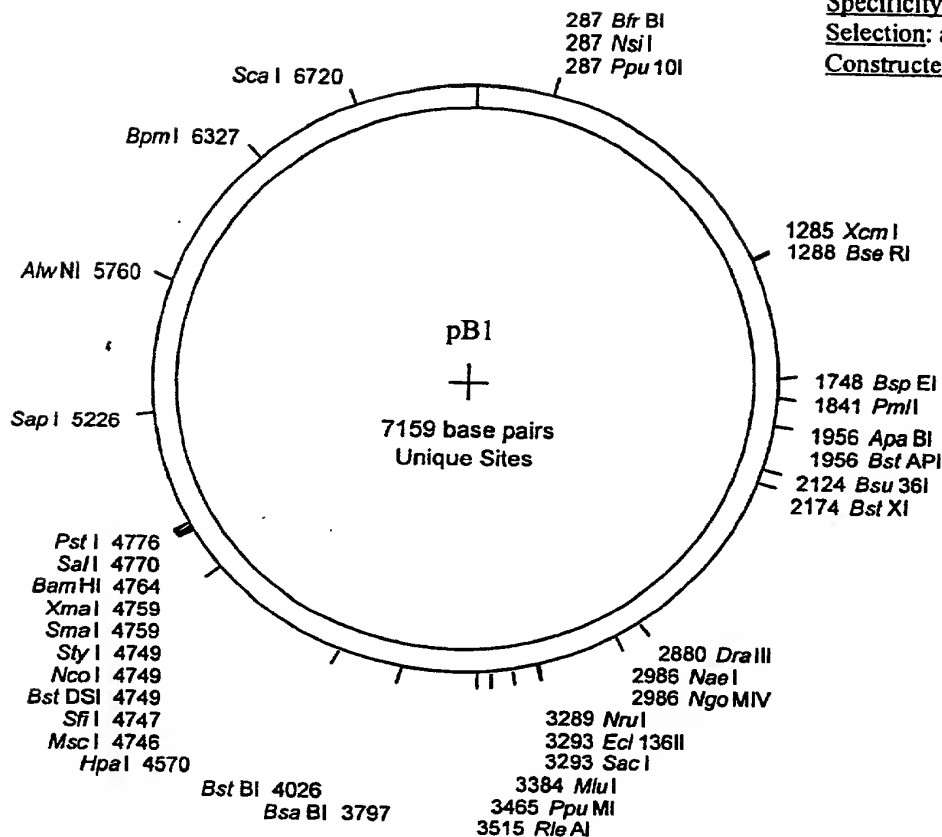


pB1

Alias: pAS2DD
 Application: 2HY (bait)
 Backbone:
 Specificity:
 Selection: ampicillin
 Constructed by:



Oligo 160

gagagtagtaacaaaggtc AAAGACAGTTGACTGTATCGCCG GAA TTT AT

Sfi I Sma I BamH I Sal I Pst I
 G GCC ATG GAG GCC CCG GGG ATC CGT CGA CCT GCA GCC
 Nco I

Oligo 161

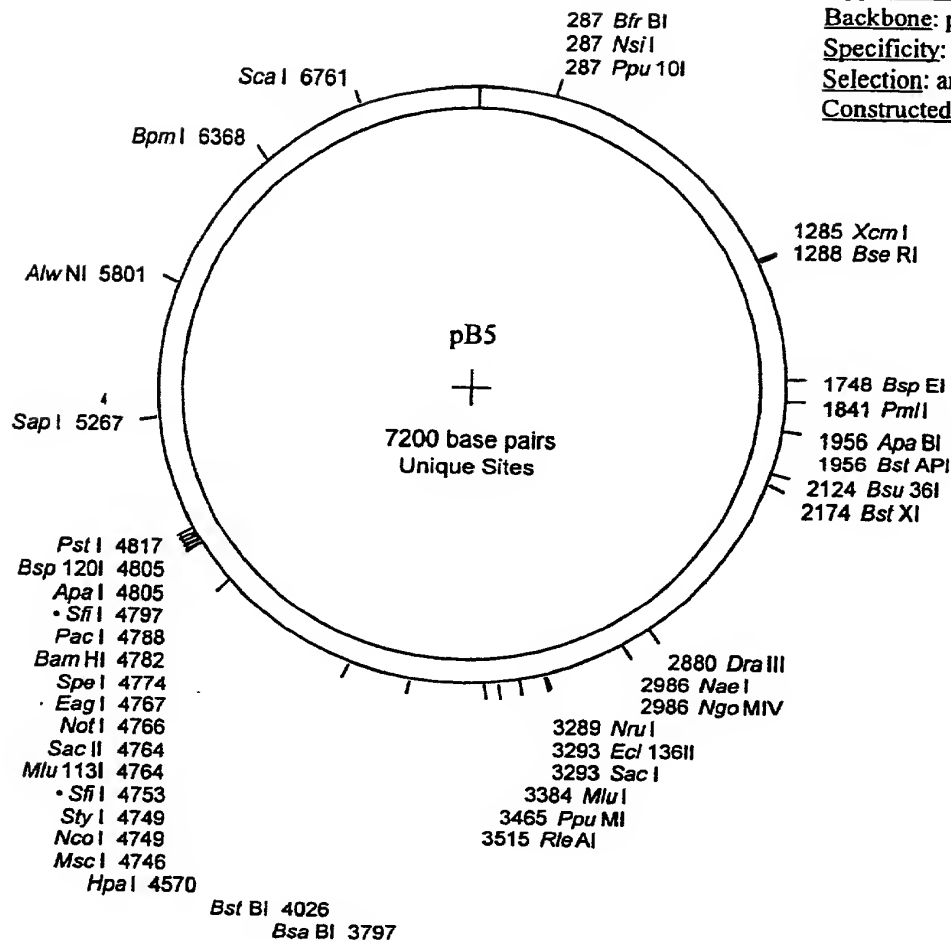
AAG CTA ATT ccgggcgaattcttatg

Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'
 Oligo 161 5' CATAAGAAATTCGCCCGG 3'

FIGURE 1

pB5²

Alias: pAS2DDNS1
Application: 2HY (bait)
Backbone: pAS2DD
Specificity: Sfi non-oriented
Selection: ampicillin
Constructed by: SW



Oligo 160

gagagtagtaacaaaggtc AAAGACAGTTGACTGTATCGCCG GAA TTT ATG

GCC ATG GCC GCA GGG GCC GCG GCC GCA CTA GTG GGG ATC C
 Nco I Sfi I Sac II Spe I Bam HI
 Not I

TT AAT **STOP** TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA
 Pac I Sfi I Pst I

Oligo 161

AGC TAA TT ccgggcgaatttctatg

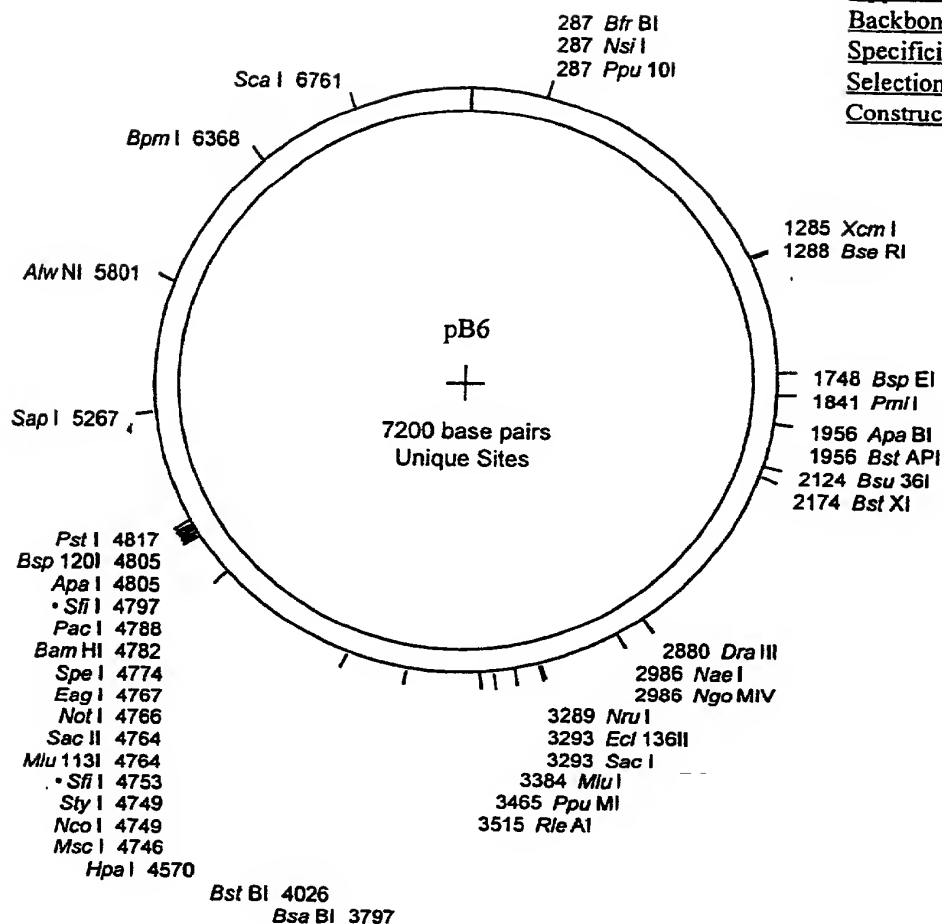
Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'

Oligo 161 5' CATAAGAAATTCGCCCCG 3'

FIGURE 2

pB6³

Application: 2HY (bait)
Backbone: pAS2DD
Specificity: Sfi oriented
Selection: ampicillin
Constructed by: SW



Oligo 160

gagagtagtaacaaaggctc AAAGACAGTTGACTGTATCGCCG GAA TTT ATG

GCC ATG GCC GGA CGG GCC GCG GCC GCA CTA GTG GGG ATC C

Sfi I Sac II Spe I Bam HI

Nco I Not I

TT AAT **STOP** TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA

Pac I Sfi I Apa I Pst I

Oligo 161

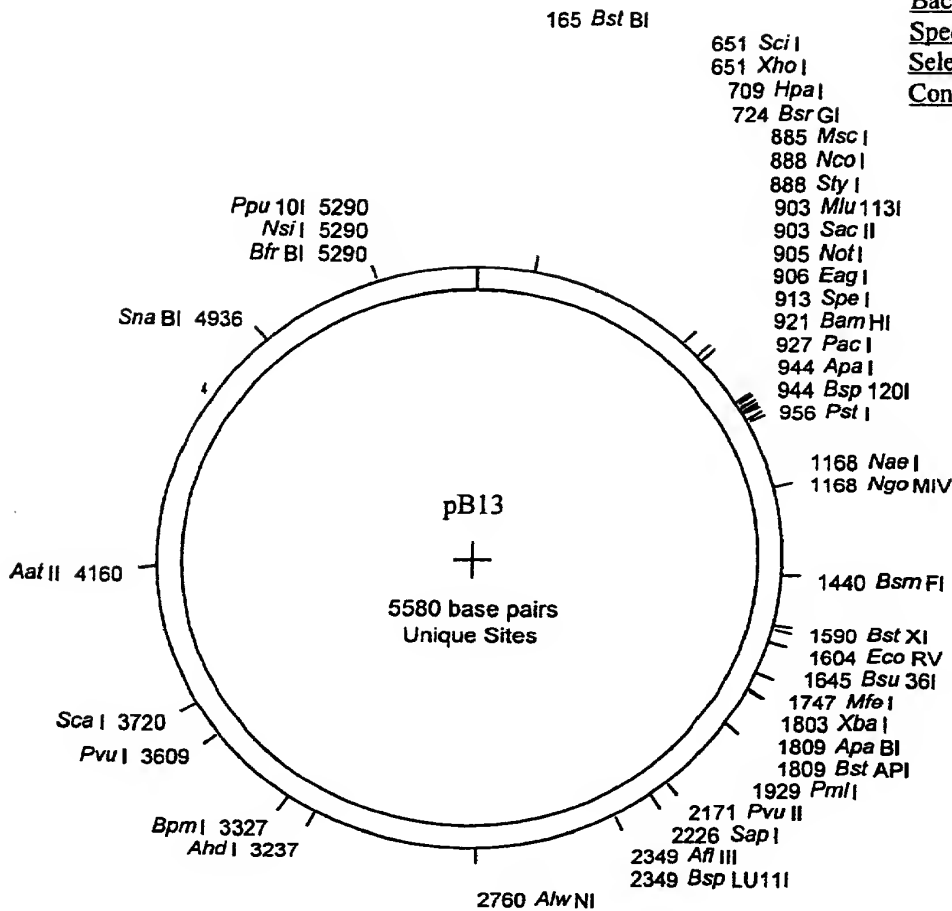
AGC TAA TT ccgggcgaattcttatg

Oligo 160 5' GAGAGTAGTAACAAAGGTC3'
Oligo 161 5' CATAAGAAATTCGCCCCGG3'

FIGURE 3

4 pB13

Alias: pGBT9NS1
Application: 2HY (bait)
Backbone: pGBT9
Specificity: Sfi non-oriented
Selection: ampicillin
Constructed by: CR



Oligo 160

gagagtagtaacaaaggtc AAAGACAGTTGACTGTATCGCCG GAA TTT ATG

		<u>Sfi I</u>		<u>Sac II</u>		<u>Spe I</u>		<u>Bam HI</u>					
GCC	ATG	GCC	GCA	GGG	GCC	GCG	GCC	GCA	CTA	GTG	GGG	ATC	C
<u>Nco I</u>						<u>Not I</u>							
		<u>STOP</u>		<u>Sfi I</u>				<u>Pst I</u>					
TT	AAT	TAA	GGG	CCA	CTG	GGG	CCC	CTC	GAC	CTG	CAG	CCA	
<u>Pac I</u>													

Oligo 161

AGC TAA TT **ccgggccaatttctatg**

Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'
 Oligo 161 5' CATAAGAAATTCGCCCCG 3'

FIGURE 4

5
pB14

Alias: pGBT9NS2
Application: 2HY (bait)
Backbone: pGBT9
Specificity: Sfi oriented
Selection: ampicillin
Constructed by: CR

165 Bst BI

651 Scl I
651 Xho I
709 Hpa I
724 Bsr GI
885 Msc I
888 Nco I
888 Sty I
903 Mlu 113 I
903 Sac II
905 Not I
906 Eag I
913 Spe I
921 Bam HI
927 Pac I
944 Apa I
944 Bsp 120 I
956 Pst I
1168 Nae I
1168 Ngo MIV
1440 Bsm FI
1590 Bst XI
1604 Eco RV
1645 Bsu 36 I
1747 Mfe I
1803 Xba I
1809 Apa BI
1809 Bst API
1929 Pml I
2171 Pvu II
2226 Sap I
2349 Afl III
2349 Bsp LU11 I

Ppu 10 I 5290
Nsi I 5290
Bfr BI 5290

Sna BI 4936

Aat II 4160

Sca I 3720
Pvu I 3609

Bpm I 3327
Ahd I 3237

2760 Alw NI

pB14

5580 base pairs
Unique Sites

Oligo 160

gagagtagtaacaaaggctc AAAGACAGTTGACTGTATCGCCG GAA TTT ATG

Sfi I Sac II Spe I Bam HI
GCC ATG GCC GGA CGG GCC GCG GCC GCA CTA GTG GGG ATC C
Nco I Not I

STOP Sfi I Apa I Pst I
TT AAT **TAA** GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA
Pac I

Oligo 161

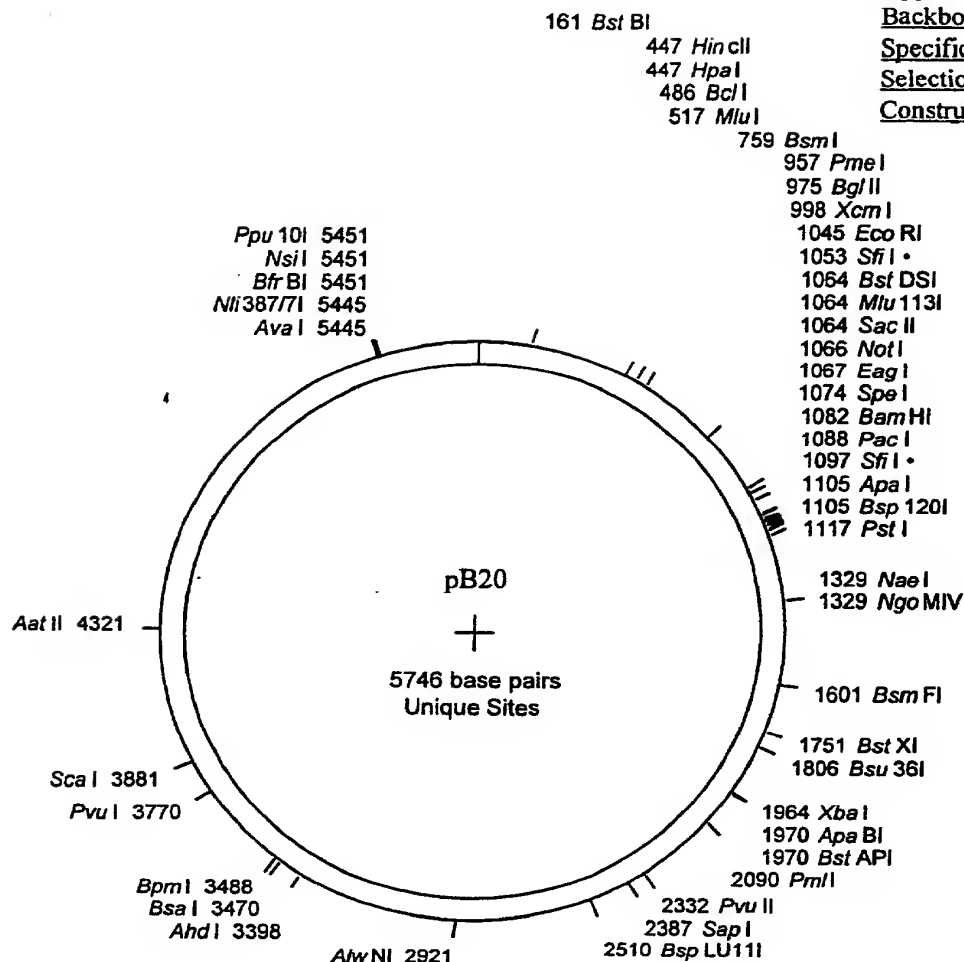
AGC TAA TT **ccgggcgaatttcttatg**

Oligo 160 5' GAGAGTAGTAACAAAGGTC3'
Oligo 161 5' CATAAGAAATTCGCCCGG3'

FIGURE 5

pB20⁶

Alias: pLex10NS2
 Application: 2HY (bait)
 Backbone: pLex10 (pB9)
 Specificity: Sfi-oriented
 Selection: ampicillin
 Constructed by: LD

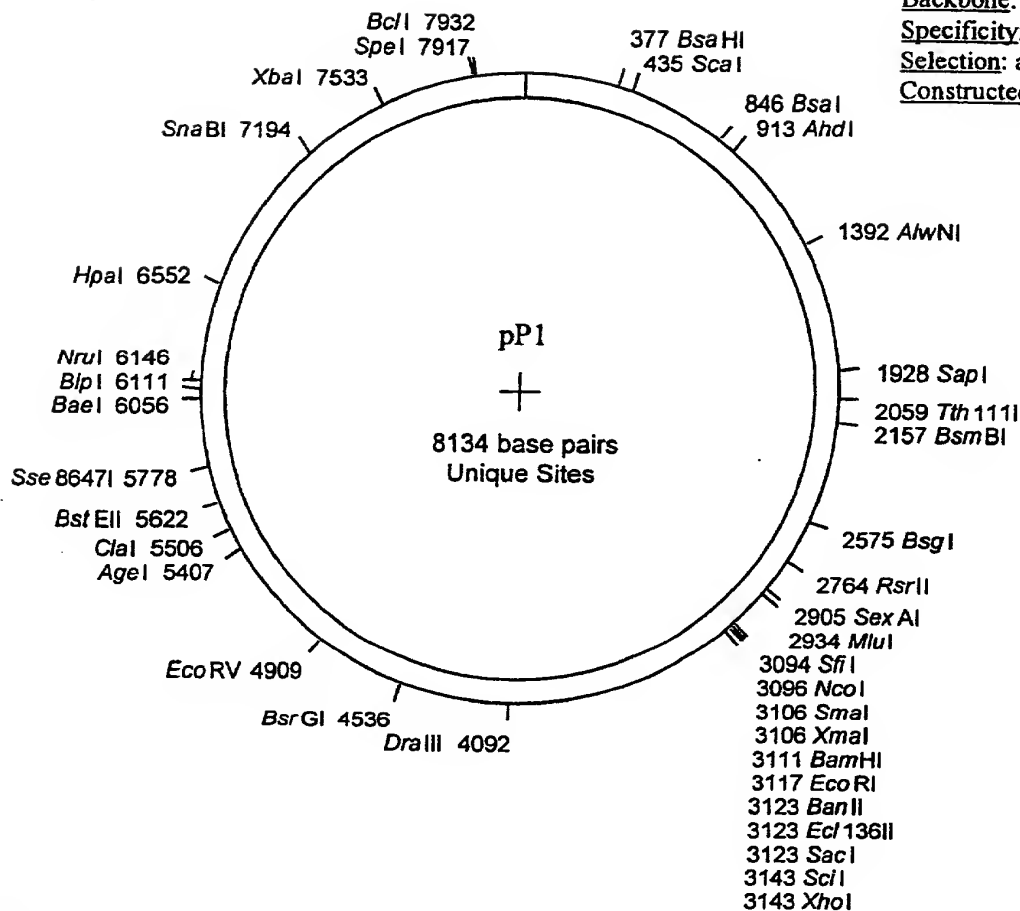


<u>EcoR I</u>		<u>Sfi I</u>		<u>Not I</u>		<u>Spe I</u>		<u>BamH I</u>						
GAA	TTC	GGG	GCC	GGA	CGG	GCC	GCG	GCC	GCA	CTA	GTG	GGG	ATC	C
<u>Sac II</u>														
TT AAT STOP TT AAT TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG														
<u>Pac I</u>			<u>Sfi I</u>						<u>Pst I</u>					

FIGURE 6

pP1

Alias : pACTIIst
Application: 2HY (prey)
Backbone: pACTII
Specificity:
Selection: ampicillin
Constructed by:



ABS1

cgtttggaatcactacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

cgatgatgaagatacccccacaaa CCCTAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Bgl II

Sfi I

Sma I

BamH I

ATTACGCTAGCTTGGGTGGTCATATGGCC ATG GAG GCC CCG GGG ATC CGA ATT

Sac I

Nco I

Xho I

Bgl II

CGA GCT CGA CTA GCT AGC TGA CTC GAG AGA TCT ATGAAT

cgtagatactgaaaaacccc GCAAGTT cactcaactgtgcatcgtg caccatctcaatttc

162

ABS2

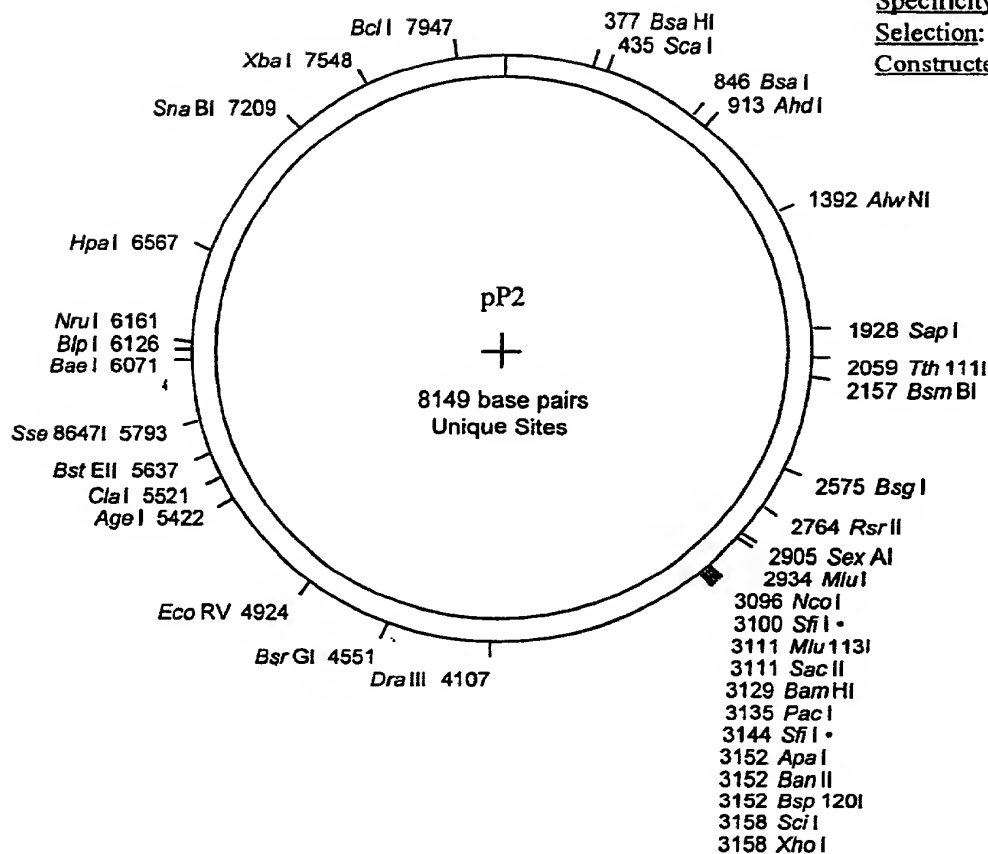
53

ABS1 5' CGTTTGGGAATCACTACAGG 3'
JC90 5' CGATGATGAAGATAACCCACCAAAA 3'
162 5' GGGGTTTTTCAGTATCTACG 3'
ABS2 5' CACGATGCACAGTTGAAGTG 3'
53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIGURE 7

pP2⁸

Application: 2HY (prey)
Backbone: pACTIIst
Specificity: Sfi non-oriented
Selection: ampicillin
Constructed by: SW



ABS1

CG cgtttgaatcactacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

Bgl II

cgatgatgaagataccccaccaaa CCCAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Sfi I

Sac II

ATTACGCTAGCTTGGGTGGTCATATGGCC ATG GCC GCA GGG GCC GCG GCC GCA

Nco I

BamHI

Pac I

CTA GTG GGG ATC CTT AAT TAA GGG CCA CTG GGG CCC CTC GAG AGA TCT

Stop

ATGAAT

cgtagatactgaaaaacccc

GCAAGTT

cacttcaactgtgcatcgtg

caccatctcaatttc

162

ABS2

53

ABS1 5' CGTTTGGGAATCACTACAGG 3'

JC90 5' CGATGATGAAGATACCCACCAAAA 3'

162 5' GGGGTTTTTTCAGTATCTACG 3'

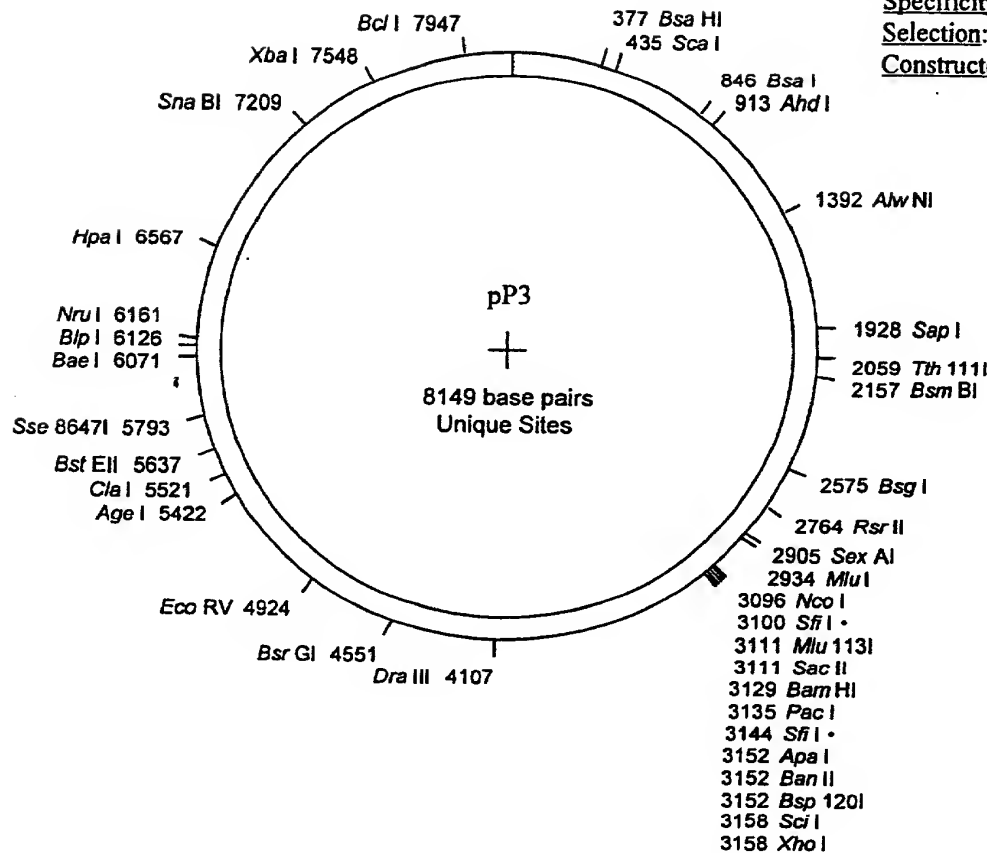
ABS2 5' CACGATGCACAGTTGAAGTG 3'

53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIGURE 8

9
pP3

Application: 2HY (prey)
Backbone: pACT11st
Specificity: Sfi oriented
Selection: ampicillin
Constructed by: SW



ABS1

CG cgtttgaatcactacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

cgatgatgaagatacccccaccaa CCCAAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Bgl II

Sfi I

Sac II

ATTACGCTAGCTTGGGTGGTCATATGGCC ATG GCC GGA CGG GCC GCG GCC GCA

BamH I

Pac I

Nco I

CTA GTG GGG ATC CTT AAT TAA GGG CCA CTG GGG CCC CTC GAG AGA TCT

Stop

ATGAAT cgtagatactgaaaaacccc GCAAGTT cacttcaactgtgcatcggtg caccatctcaatttc

162

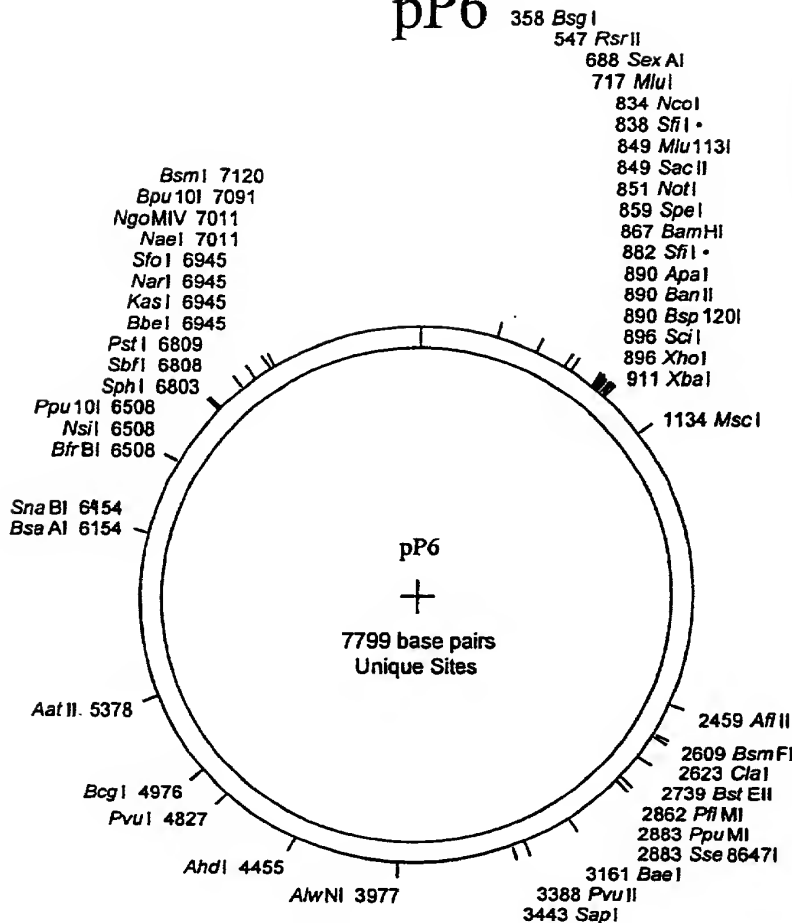
ABS2

53

ABS1 5' CGTTTGAATCACTACAGG 3'
JC90 5' CGATGATGAAGATACCCACCAAA 3'
162 5' GGGGTTTTTCAGTATCTACG 3'
ABS2 5' CACGATGCACAGTTGAAGTG 3'
53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIGURE 9

pP6¹⁰



Alias: pGAD3S2XNS1
 Application: 2HY (prey)
 Backbone: pGAD3S2X
 Specificity: Sfi non-oriented
 Selection: ampicillin
 Constructed by: SW

ABS1

cgtttgaatcactacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

cgatgatgaagataccccaccaa CCCTAGAACTA

Sfi I

Sac II

Spe I

Bam HI

GCC ATG GCC GCA GGG GCC GCG GCC GCA CTA GTG GGG ATC C

Nco I

Not I

STOP

Sfi I

Xho I

Xba I

TT AAT TAA GGG CCA CTG GGG CCC CTC GAG TAG CTA GTG TCT AGA
 STOP STOP STOP

GGCCCGGTACCCAATTCGCCCTATAGTGAGTCGTATTACAATTCAGTGGCCG TCGTTT

CAACGTCGTGACTGGGAAAACCCTGATCTATGAAT cgtagatactgaaaaacccc GCAA

GTT cacttcaactgtgcatcgtg caccatctcaatttcttc

ABS2

53

ABS1 5' CGTTTGAATCACTACAGG 3'

JC90 5' CGATGATGAAGATAACCCACCAAA 3'

162 5' GGGGTTTTTCAGTATCTACG 3'

ABS2 5' CACGATGCACAGTTGAAGTG 3'

53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIGURE 10

pP7

358 BsgI

547 RsrII

688 Sex AI

717 MluI

834 NcoI

838 SfiI

849 Mlu113I

849 SacII

851 NotI

859 SpeI

867 BamHI

882 SfiI

890 ApaI

890 BanII

890 Bsp120I

896 SciI

896 XhoI

911 XbaI

Alias: pGAD3S2XNS2

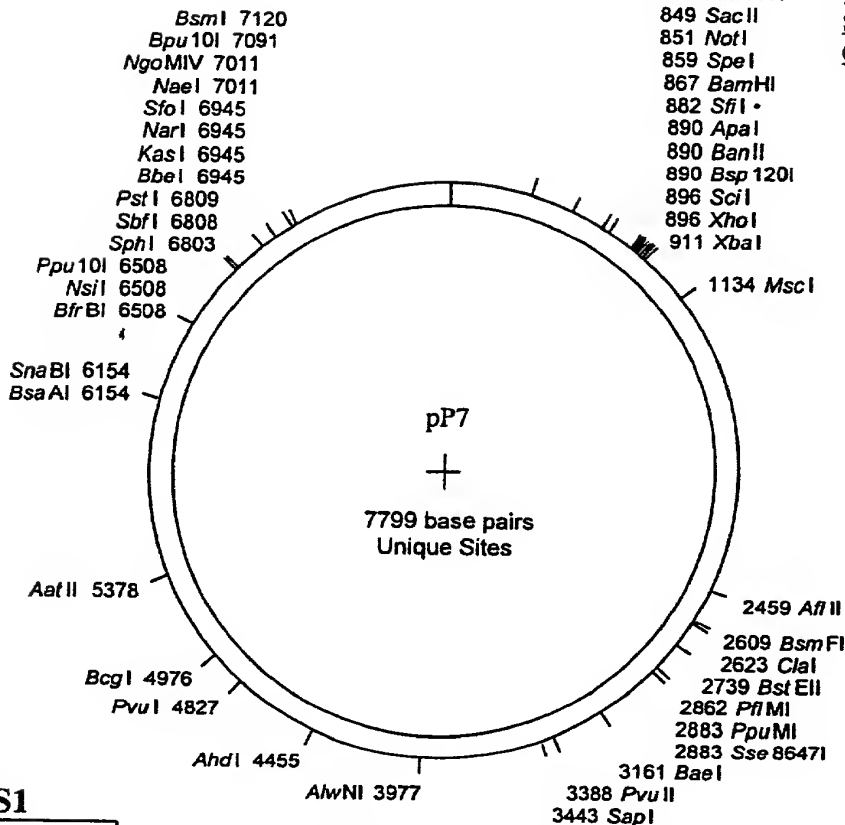
Application: 2HY (prey)

Backbone: pGAD3S2X

Specificity: Sfi oriented

Selection: ampicillin

Constructed by:SW



ABS1

cgtttggaatcactacagg GATGTTTAATACCACTACAATGGATGATGTATATAACTATCTATT

JC90

cgatgatgaagataccccaccaa CCCAAAAAAGAGATCCTAGAACTA

Sfi I

Sac II

Spe I

Bam HI

GCC ATG GCC GGA CGG GCC GCG GCC GCA CTA GTG GGG ATC C
Nco I Not I

STOP

Sfi I

Xho I

Xba I

TT AAT TAA GGG CCA CTG GGG CCC CTC GAG TAG CTA GTG TCT AGA
STOP STOP STOP

GGCCCGGTACCCAATTCGCCCTATAGTGAGTCGTATTACAATTCCTGGCCGTCGTTTTA

CAACGTCGTGACTGGGAAAACCCTGATCTATGAAT cgtagatactgaaaaacccc GCAA

GTT cactcaactgtgcatcgtg caccatctcaattcttt

162

ABS2

53

ABS1 5' CGTTTGGAATCACTACAGG 3'

JC90 5' CGATGATGAAGATACCCACCAAAA 3'

162 5' GGGGTTTTTTCAGTATCTACG 3'

ABS2 5' CACGATGCACAGTTGAAGTG 3'

53 5' GAAATTGAGATGGTGCACGATGCAC 3'

FIGURE 11

VECTORS EXPRESSING THE T25 FRAGMENT

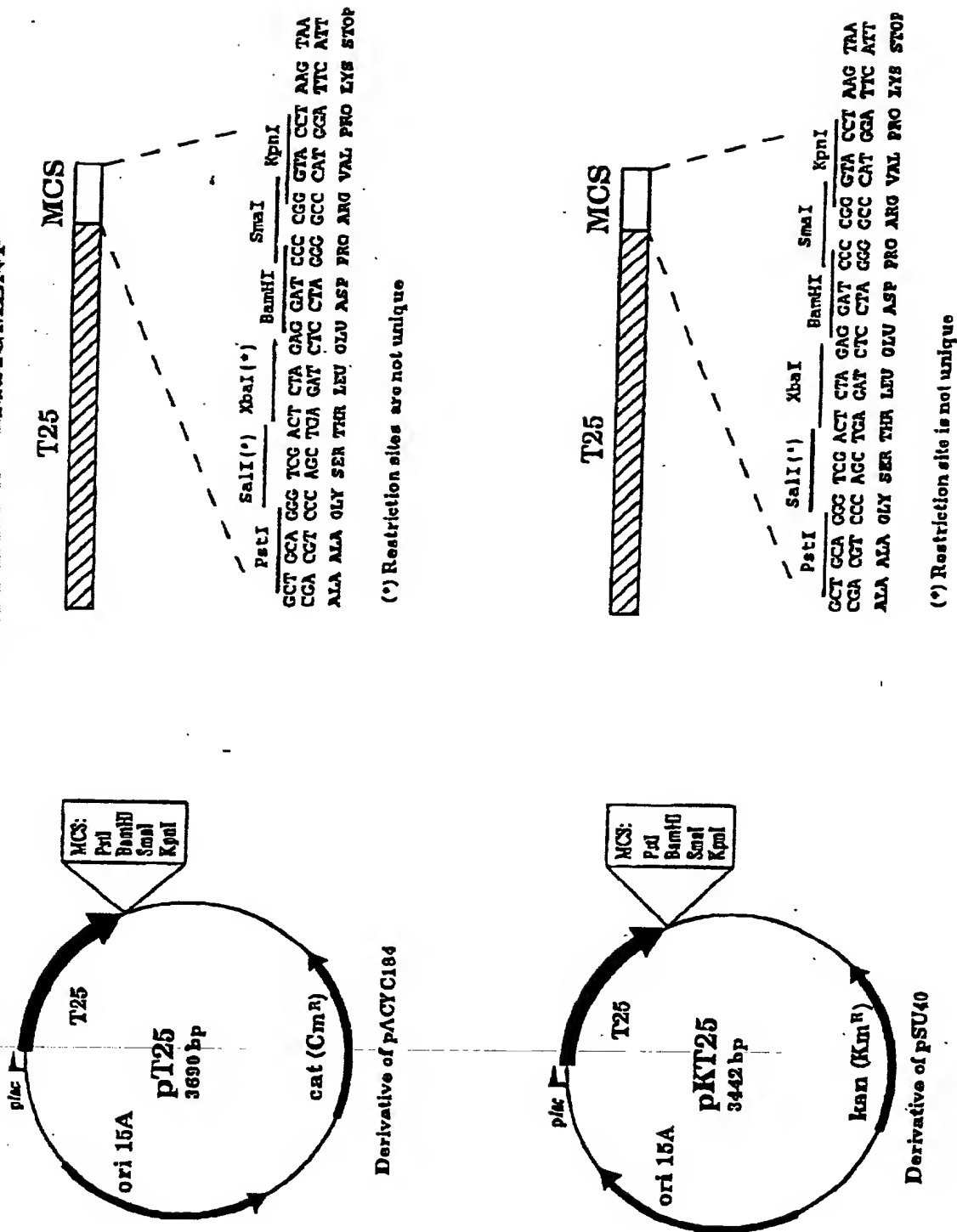


FIGURE 12

VECTORS EXPRESSING THE T18 FRAGMENT

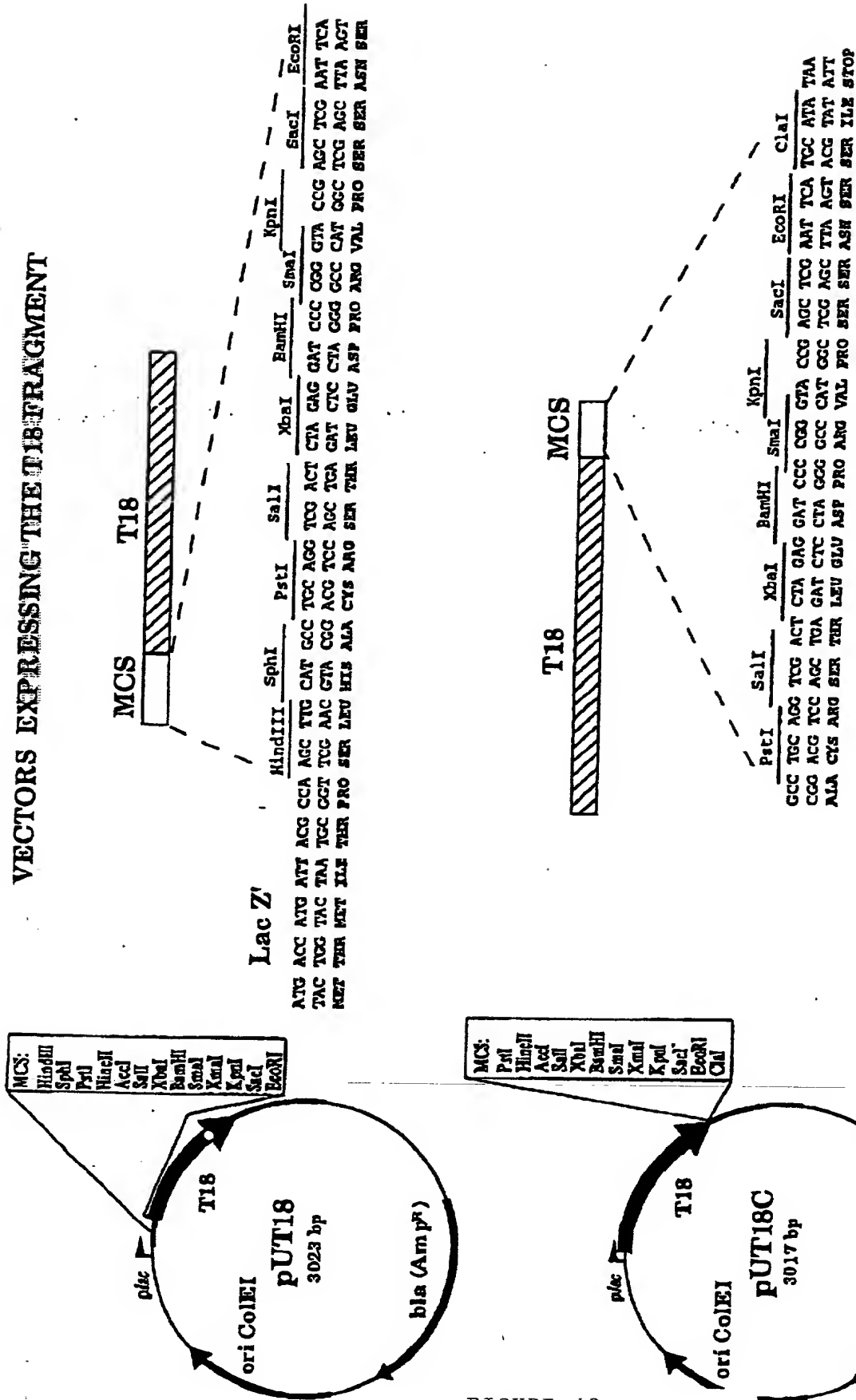
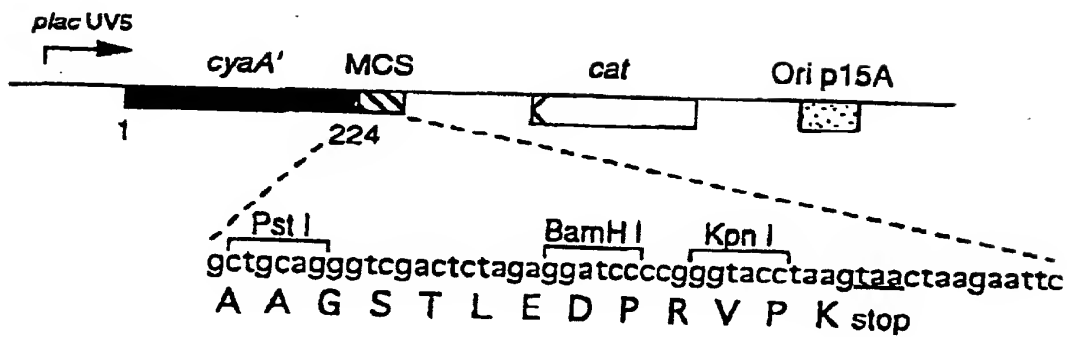


FIGURE 13

pCmAHL1



pT25



pT18

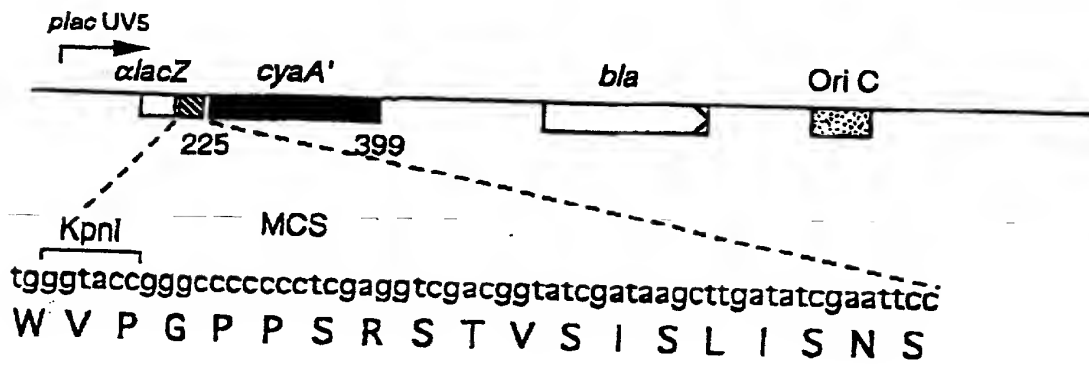


FIGURE 14

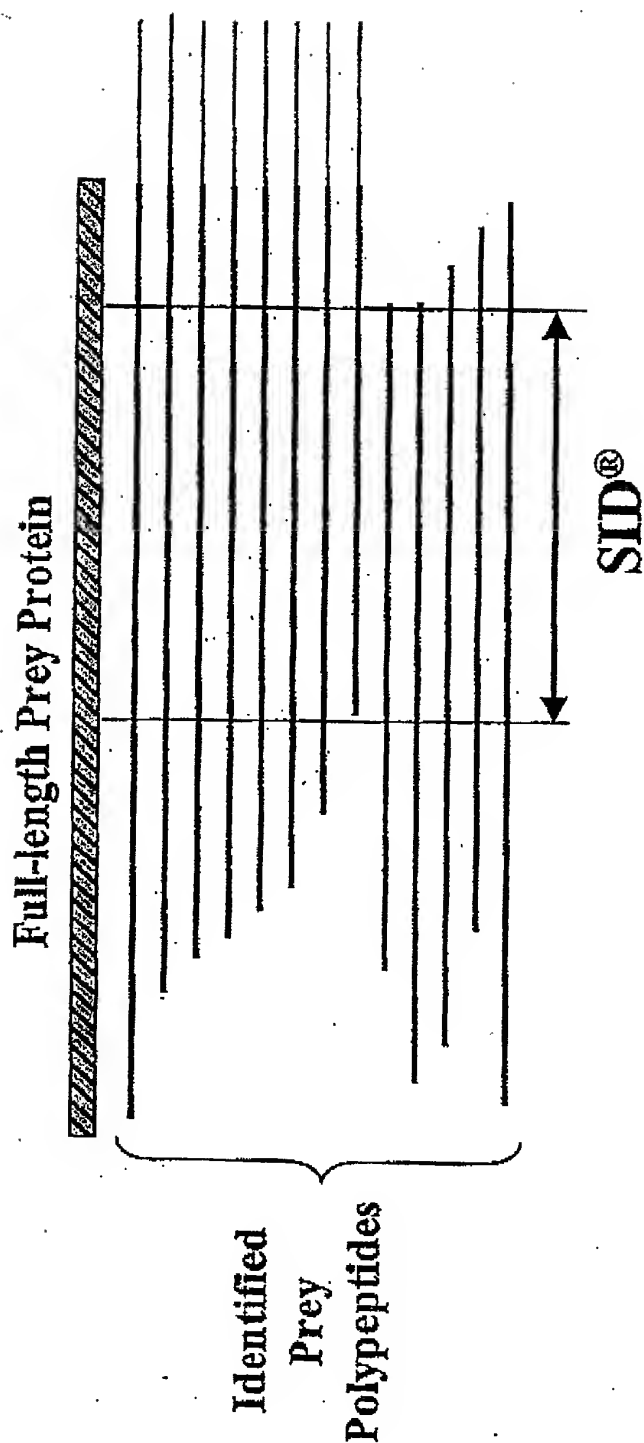


Figure 15: Schematic representation of SID® determination

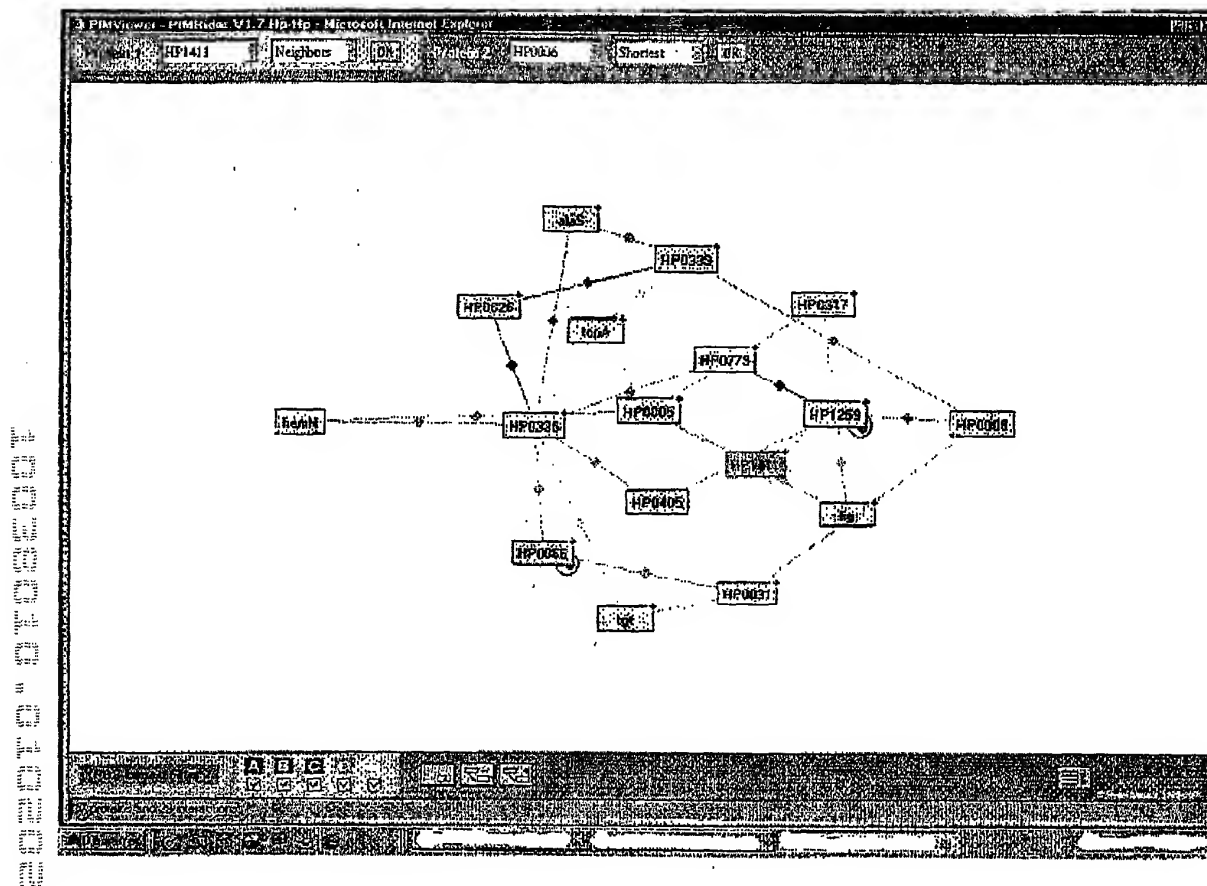


Figure 16 : Example of Protein Interaction Map

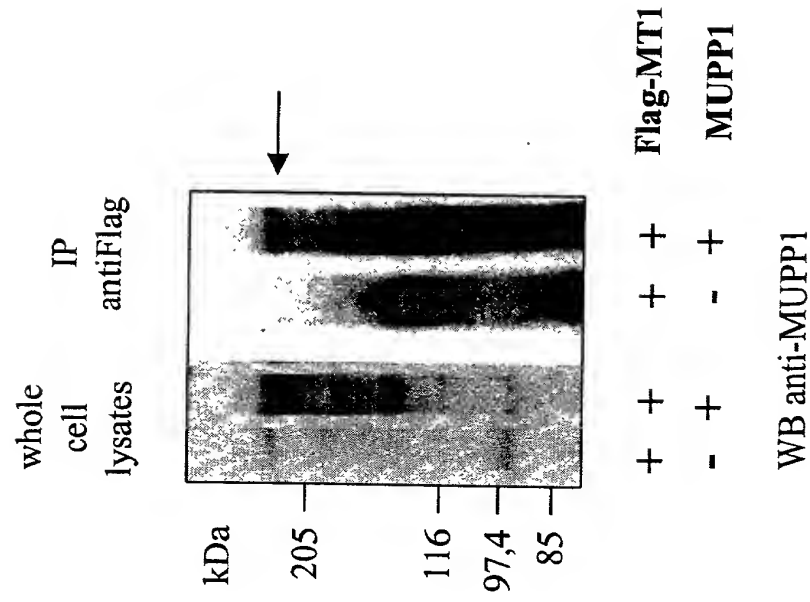
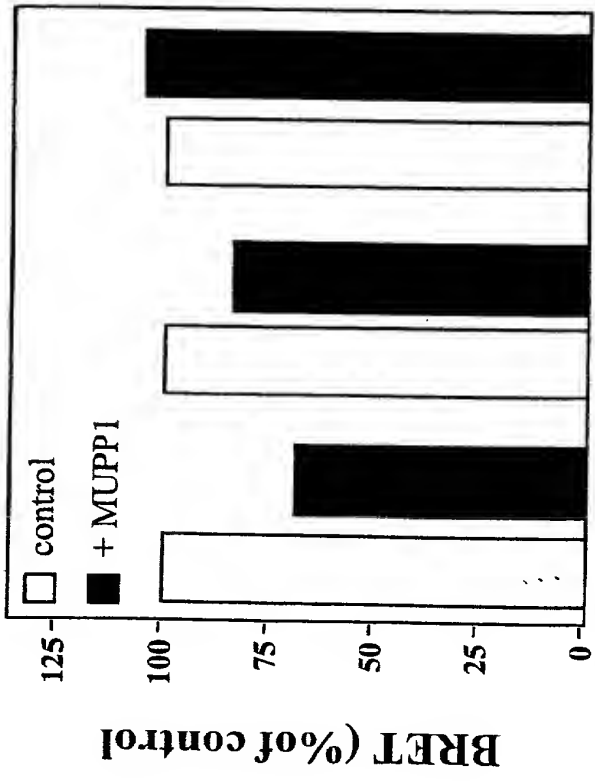


FIGURE 17

A)

Effect of MUPP1 over-expression on the oligomerization of melatonin receptors



MT1R-Rluc	+	+	-
MT2R-Rluc	-	-	+
MT1R-YFP	+	-	-
MT2R-YFP	-	+	+

B)

Competition of energy transfer between MT1R-Rluc and MT1R-YFP by MUPP1

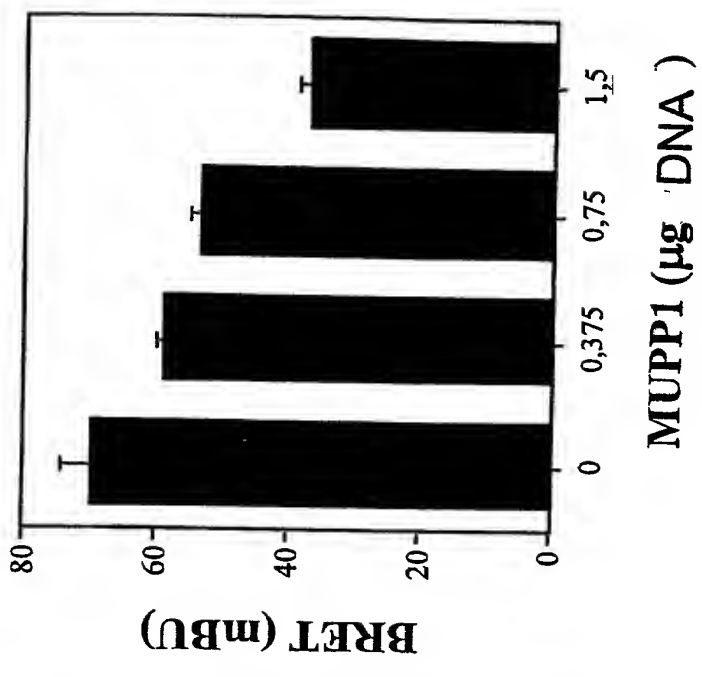


FIGURE 18

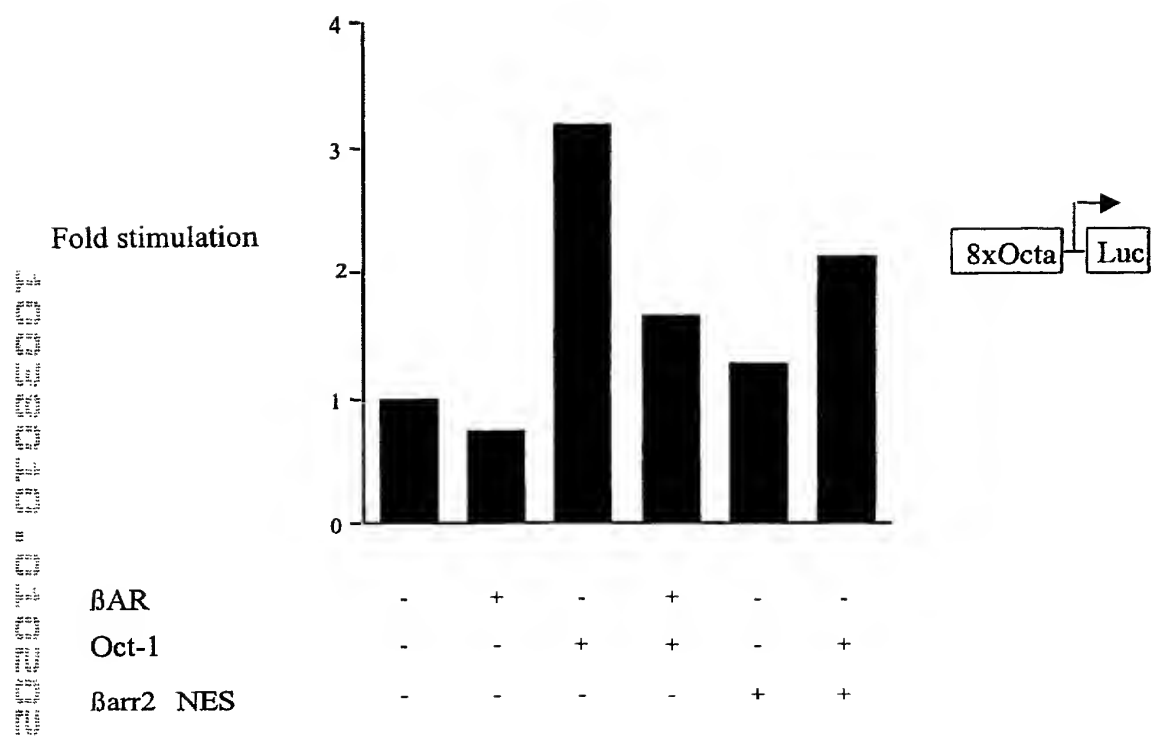


Figure 19